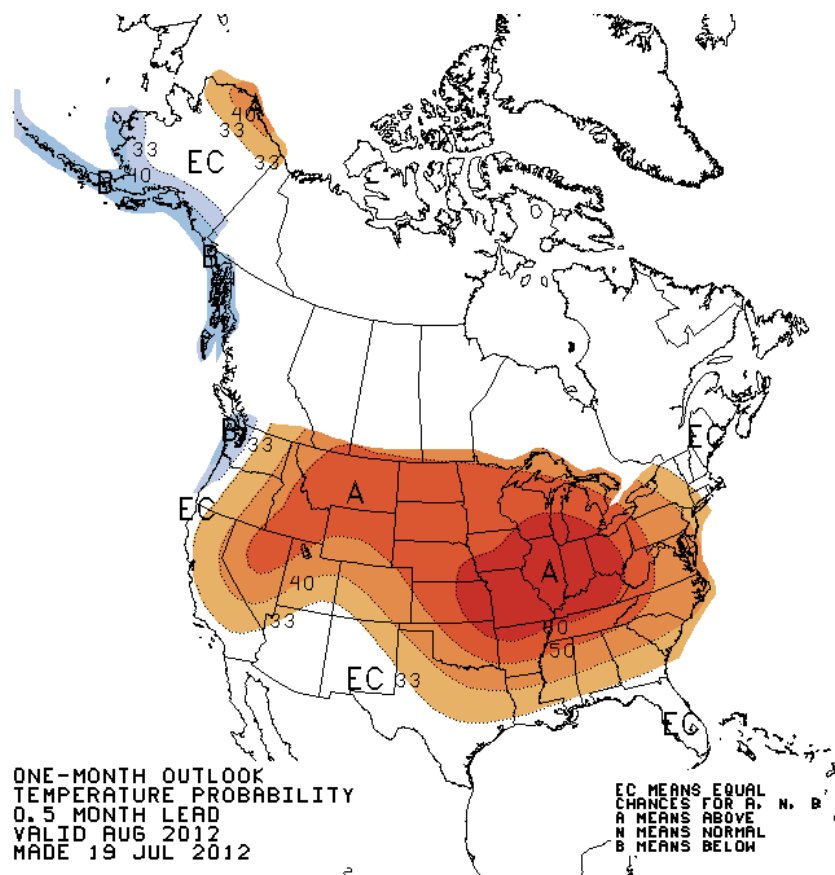


North Central United States August & August-September-October 2012 Climate Prediction Center (CPC) Climate Outlook and Summary

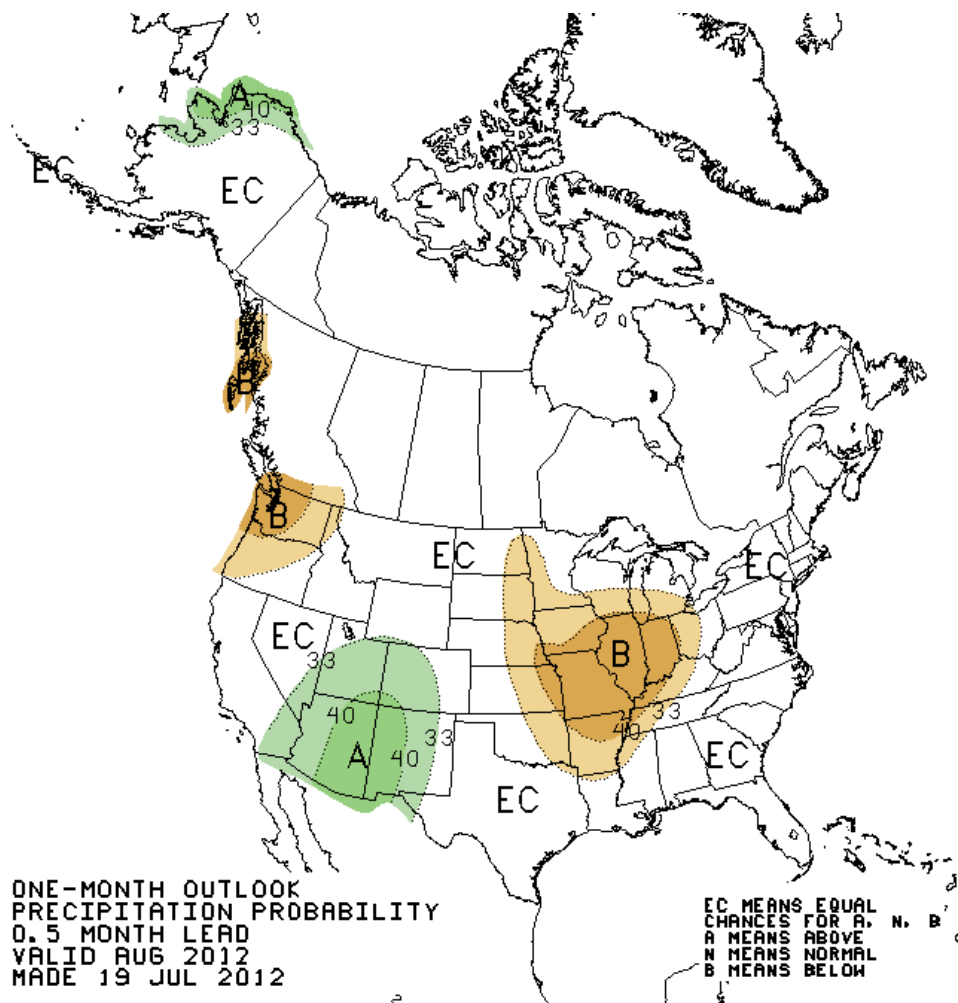
August Temperature Outlook:

The entire North Central United States has a higher than usual chance of above-normal temperatures for August. The best chance of warmer than normal temperatures will exist through southeastern Nebraska and southern Iowa, with a 60% chance or greater of temperatures above-normal relative climatology (as well as a 33% chance of near-normal temperatures and a 3% to 7% of below-normal temperatures). To the north and west of this area, the remainder of the region will have a 50% to 60% chance of temperatures above-normal (and a 33% chance of near-normal, and a 7% to 17% chance of below-normal temperatures relative to climatology).



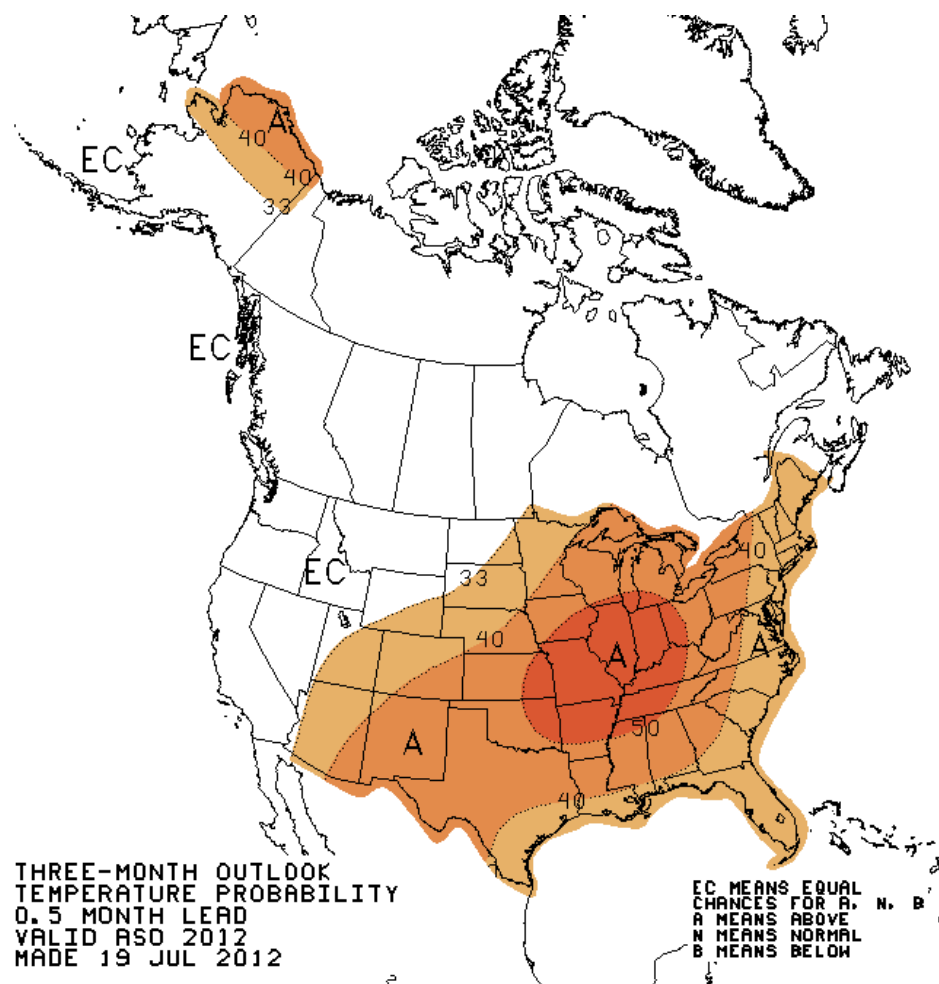
August Precipitation Outlook:

For the month of August, about half of the North Central U.S. will have equal chances of any of the three categories; i.e. a 33% chance of above-normal precipitation, a 33% chance of near-normal precipitation, and a 33% chance of below-normal precipitation. However, a chance for drier than normal conditions will be found over the eastern portions of the Dakotas and Nebraska, western Minnesota and northern Iowa, with a 33% to 40% chance of below-normal precipitation relative to climatology (and a 33% chance of near-normal precipitation, and a 27% to 33% chance of wetter than normal conditions). Far southeastern Nebraska and southern Iowa will have an even greater chance of drier conditions, with a 40% chance or greater of drier than normal conditions (as well as a 33% chance of near-normal precipitation and a 17% to 27% chance of above-normal precipitation for the period).



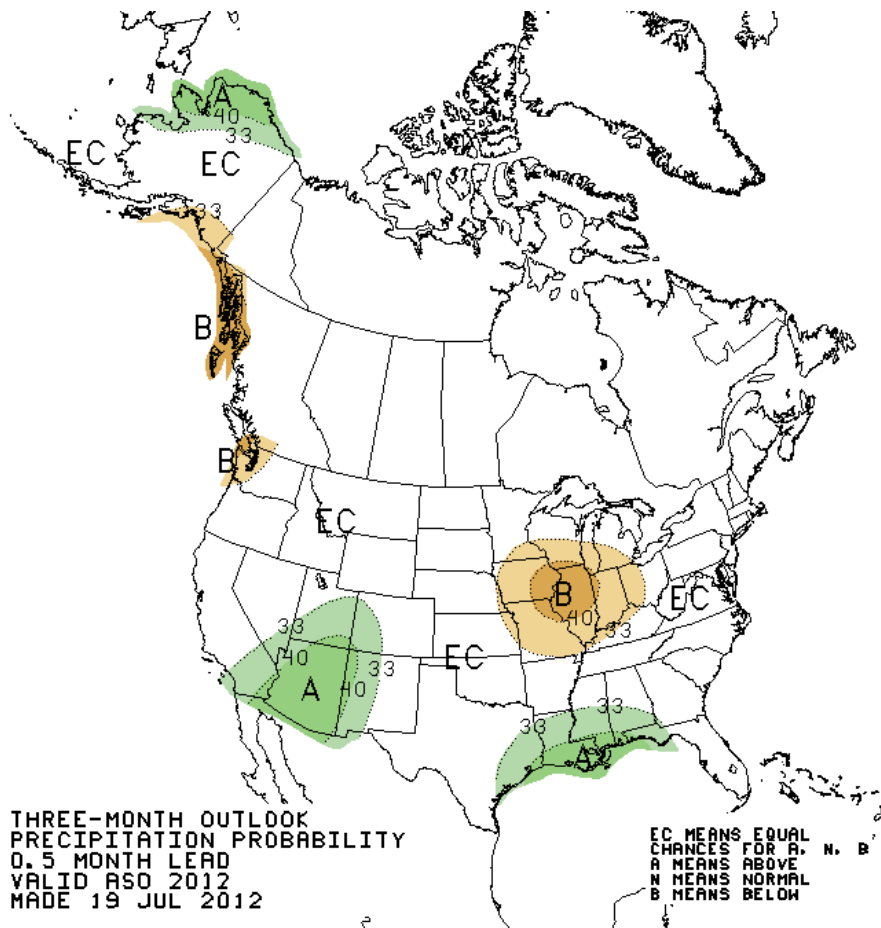
August - October Temperature Outlook:

While much of North Dakota and northwestern South Dakota will have indeterminate chances for above-normal, near-normal and below-normal temperatures for August through October, the remainder of the region is expected to be warmer than normal. The best chance of above-normal temperatures relative to climatology will occur over southeastern Iowa, where there will be a 50% chance or greater of above-normal temperatures for August through October (with a 33% chance of near-normal temperatures, and a 7% to 17% chance of below-normal temperatures). To the north and west of this area, there is a 40% to 50% chance of above-normal temperatures for the period over the remainder of Iowa, southeastern Nebraska and southeastern Minnesota (with a 33% chance of near-normal temperatures, and a 17% to 27% chance of below-normal temperatures relative to climatology). Surrounding this area, there is a 33% to 40% chance of above-normal temperatures for the late-summer to mid-autumn months over the northwestern half of Nebraska, most of South Dakota, southeastern North Dakota and most of Minnesota (with a 33% chance of temperatures near-normal and a 27% to 33% of temperatures below-normal).



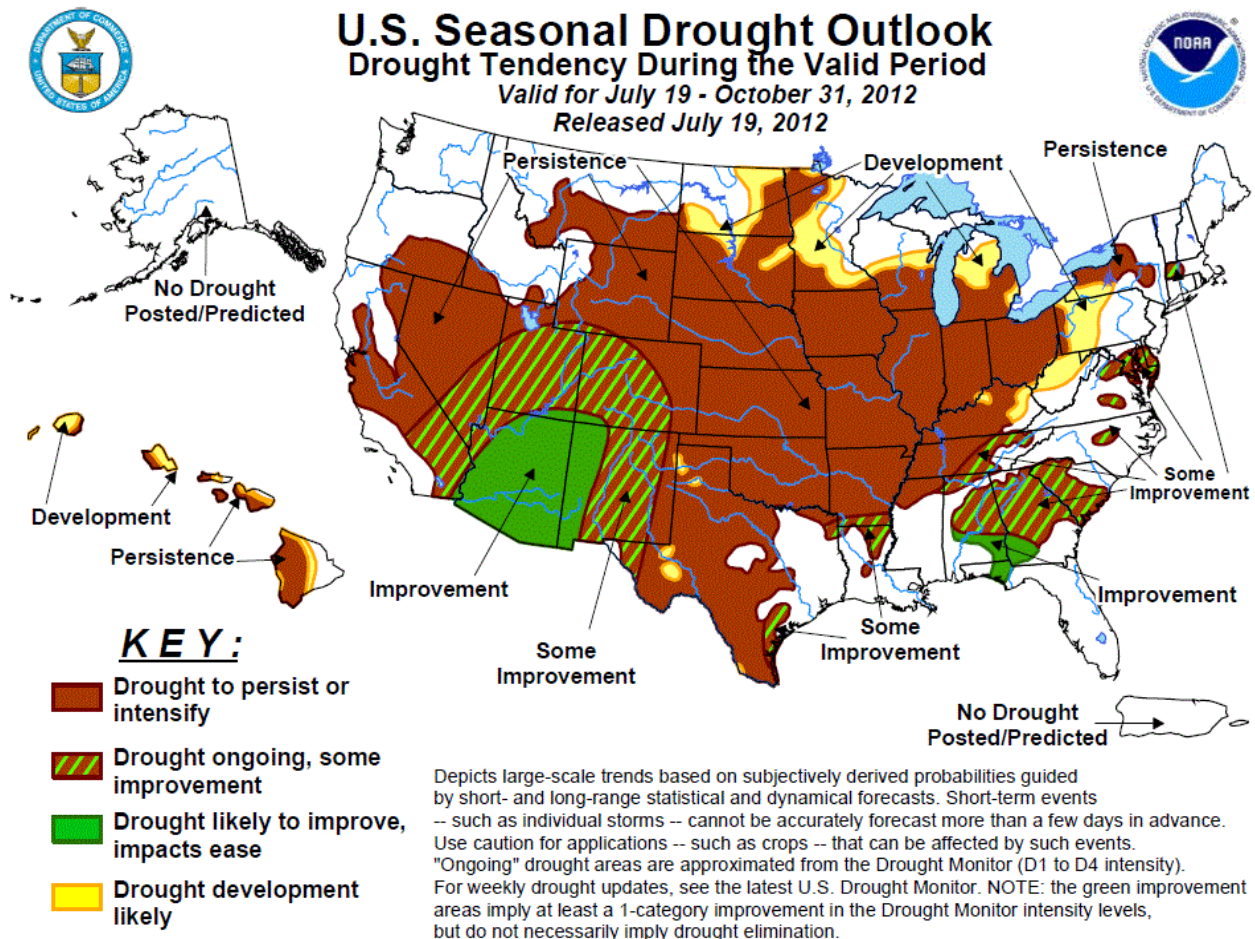
August – October Precipitation Outlook:

Most of the North Central United States will have equal chances of above-normal (33%), near-normal (33%), or below-normal (33%) precipitation for August through October, with no strong climate signal preferring one category over another. The exceptions will be over far southeastern Minnesota and northern and western Iowa where there will be a 33% to 40% chance of drier than normal conditions (as well as a 33% chance of near-normal precipitation and a 27% to 33% chance of wetter than normal conditions). The best chance of drier conditions relative to climatology will exist over southeastern Iowa where there will be a 40% or greater chance of dry conditions through the period (with a 33% chance of near-normal precipitation and a 17% to 27% chance of above-normal precipitation).



Seasonal Drought Outlook

The most recent Seasonal Drought Outlook indicates that the drought will persist or intensify over most of South Dakota, Nebraska, Iowa, southern Minnesota and eastern North Dakota, while drought development is likely over the remainder of the region into October.



Seasonal Outlook Interpretation Guide

The outlooks indicate probability of being in three specific categories in reference to the 30-year climatology from 1981-2010:

| Temperature | | Precipitation | |
|-------------------------------------|----------------------|-----------------------------------|----------------------|
| Social Science | Climate Science | Social Science | Climate Science |
| Uncommonly Cold | Below Normal Tercile | Uncommonly Wet | Above Normal Tercile |
| Uncommonly Warm | Above Normal Tercile | Uncommonly Dry | Below Normal Tercile |
| Moderate (Neither Warm Nor Cold) | Normal Tercile | Moderate (Neither Wet nor Dry) | Normal Tercile |

The National Weather Service Seasonal Climate Outlooks predict the probability of conditions being among the warmest/coldest or wettest/driest terciles of years compared to the period of 1981-2010:

| Precip | Temp | Probability of Occurrence | | | Most likely category |
|--------|------|---------------------------|-------------|-------------|----------------------|
| | | Above | Near | Below | |
| | | 80.0%-90.0% | 16.7%-06.7% | 03.3% | "Above" |
| | | 70.0%-80.0% | 26.7%-16.7% | 03.3% | "Above" |
| | | 60.0%-70.0% | 33.3%-26.7% | 06.7%-03.3% | "Above" |
| | | 50.0%-60.0% | 33.3% | 16.7%-06.7% | "Above" |
| | | 40.0%-50.0% | 33.3% | 26.7%-16.7% | "Above" |
| | | 33.3%-40.0% | 33.3% | 33.3%-26.7% | "Above" |
| | | 33.3%-30.0% | 33.3%-40.0% | 33.3%-30.0% | "Near Normal" |
| | | 30.0%-25.0% | 40.0%-50.0% | 30.0%-25.0% | "Near Normal" |
| | | 33.3%-26.7% | 33.3% | 33.3%-40.0% | "Below" |
| | | 26.7%-16.7% | 33.3% | 40.0%-50.0% | "Below" |
| | | 16.7%-06.7% | 33.3% | 50.0%-60.0% | "Below" |
| | | 06.7%-03.3% | 33.3%-26.7% | 60.0%-70.0% | "Below" |
| | | 03.3% | 26.7%-16.7% | 70.0%-80.0% | "Below" |
| | | 03.3% | 16.7%-06.7% | 80.0%-90.0% | "Below" |
| | | 33.3% | 33.3% | 33.3% | "Equal Chances" |

